

(FILE 'HOME' ENTERED AT 12:04:50 ON 20 DEC 2002)

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 12:05:29 ON 20 DEC 2002

L1 22472 FILE CAPLUS
L2 425 FILE MEDLINE
L3 509 FILE BIOSIS
TOTAL FOR ALL FILES
L4 23406 S COUPLING(W)AGENT
L5 0 FILE CAPLUS
L6 0 FILE MEDLINE
L7 0 FILE BIOSIS
TOTAL FOR ALL FILES
L8 0 S L4 AND (ETHYLTHIO? (3W)TETRAZOLE)
L9 0 FILE CAPLUS
L10 0 FILE MEDLINE
L11 0 FILE BIOSIS
TOTAL FOR ALL FILES
L12 0 S L4 AND (ETHYLTHIO?(3W)TETRAZOLE)
L13 10 FILE CAPLUS
L14 2 FILE MEDLINE
L15 3 FILE BIOSIS
TOTAL FOR ALL FILES
L16 15 S (ETHYLTHIO?(3W)TETRAZOLE)

FILE 'REGISTRY' ENTERED AT 12:06:36 ON 20 DEC 2002

L17 5 S (ETHYLTHIO?(3W)TETRAZOLE)
L18 1 S 5(W)ETHYLTHIO(W)1H(W)TETRAZOLE

FILE 'CAPLUS' ENTERED AT 12:08:33 ON 20 DEC 2002

L19 15 S L18
L20 41 S L17
L21 1 S L19 AND L20 AND PHOSPHOROTHIOATE

FILE 'STNGUIDE' ENTERED AT 12:09:11 ON 20 DEC 2002

FILE 'CAPLUS, MEDLINE, BIOSIS, USPATFULL' ENTERED AT 12:16:25 ON 20 DEC 2002

L22 0 FILE CAPLUS
L23 0 FILE MEDLINE
L24 0 FILE BIOSIS
L25 71 FILE USPATFULL
TOTAL FOR ALL FILES
L26 71 S L4 AND ETHYLTHIO AND TETRAZOLE
L27 0 FILE CAPLUS
L28 0 FILE MEDLINE
L29 0 FILE BIOSIS
L30 0 FILE USPATFULL
TOTAL FOR ALL FILES
L31 0 S L26 AND PHOSPHOROTHIOATE
L32 0 FILE CAPLUS
L33 0 FILE MEDLINE
L34 0 FILE BIOSIS
L35 1 FILE USPATFULL
TOTAL FOR ALL FILES
L36 1 S L26 AND THIOPHOSPHATE
L37 0 FILE CAPLUS
L38 0 FILE MEDLINE
L39 0 FILE BIOSIS
L40 0 FILE USPATFULL
TOTAL FOR ALL FILES
L41 0 S L26 AND PHOSPHOROTHIOATE

TOTAL FOR ALL FILES

L12 0 S L4 AND (ETHYLTHIO?(3W)TETRAZOLE)

L13 10 FILE CAPLUS

L14 2 FILE MEDLINE

L15 3 FILE BIOSIS

TOTAL FOR ALL FILES

L16 15 S (ETHYLTHIO?(3W)TETRAZOLE)

FILE 'REGISTRY' ENTERED AT 12:06:36 ON 20 DEC 2002

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L20 41 S L17

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FILE 'CAPLUS, MEDLINE, BIOSIS, USPATFULL' ENTERED AT 12:16:25 ON 20 DEC 2002

L22 0 FILE CAPLUS

L23 0 FILE MEDLINE

L24 0 FILE BIOSIS

L25 71 FILE USPATFULL

TOTAL FOR ALL FILES

L26 71 S L4 AND ETHYLTHIO AND TETRAZOLE

L27 0 FILE CAPLUS

L28 0 FILE MEDLINE

L29 0 FILE BIOSIS

L30 0 FILE USPATFULL

TOTAL FOR ALL FILES

L31 0 S L26 AND PHOSPHOROTHIOATE

L32 0 FILE CAPLUS

L33 0 FILE MEDLINE

L34 0 FILE BIOSIS

L35 1 FILE USPATFULL

TOTAL FOR ALL FILES

L36 1 S L26 AND THIOPHOSPHATE

L37 0 FILE CAPLUS

L38 0 FILE MEDLINE

L39 0 FILE BIOSIS

L40 0 FILE USPATFULL

TOTAL FOR ALL FILES

L41 0 S L26 AND PHOSPHOROTHIOATE

L42 0 FILE CAPLUS

L43 0 FILE MEDLINE

L44 0 FILE BIOSIS

L45 48 FILE USPATFULL

TOTAL FOR ALL FILES

L46 48 S ETHYLTHIO AND TETRAZOLE AND PHOSPHOROTHIOATE

L47 0 FILE CAPLUS

L48 0 FILE MEDLINE

L49 0 FILE BIOSIS

L50 30 FILE USPATFULL

TOTAL FOR ALL FILES

L51 30 S L46 AND (CHIRAL OR ENANTIOMER OR STEREOISOMER OR RACEMIC)

L52 0 FILE CAPLUS

L53 0 FILE MEDLINE

L54 0 FILE BIOSIS

L55 11 FILE USPATFULL

TOTAL FOR ALL FILES

L28 ANSWER 1 OF 17 USPATFULL

ACCESSION NUMBER: 2002:280785 USPATFULL
TITLE: Process for preparing peptide derivatized oligomeric compounds
INVENTOR(S): Manoharan, Muthiah, Carlsbad, CA, UNITED STATES
Guzaev, Andrei P., Carlsbad, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002156235	A1	20021024
APPLICATION INFO.:	US 2001-949474	A1	20010907 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-658517, filed on 8 Sep 2000, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Michael P. Straher, WOODCOCK WASHBURN LLP, 46th Floor, One Liberty Place, Philadelphia, PA, 19103		
NUMBER OF CLAIMS:	31		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Page(s)		
LINE COUNT:	3069		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods of preparing peptide linked oligomeric compounds are provided. The method is useful for preparing larger scale amounts of peptide linked oligomeric compounds. More particularly, the synthesis of peptide linked oligomeric compounds is performed without the problems of aggregation associated with electrostatic interactions. The present method describes using equimolar amounts of oligomeric compounds and peptide reagents providing for an increase in overall efficiency.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L28 ANSWER 2 OF 17 USPATFULL

ACCESSION NUMBER: 2002:236261 USPATFULL
TITLE: Charge tags and the separation of nucleic acid molecules
INVENTOR(S): Lyamichev, Victor, Madison, WI, UNITED STATES
Skrzpczynski, Zbigniew, Verona, WI, UNITED STATES
Allawi, Hatim T., Madison, WI, UNITED STATES
Wayland, Sarah R., Madison, WI, UNITED STATES
Takova, Tsetska, Madison, WI, UNITED STATES
Neri, Bruce P., Madison, WI, UNITED STATES
PATENT ASSIGNEE(S): Third Wave Technologies, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002128465	A1	20020912
APPLICATION INFO.:	US 2001-777430	A1	20010206 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-333145, filed on 14 Jun 1999, PENDING Continuation-in-part of Ser. No. US 1996-682853, filed on 12 Jul 1996, GRANTED, Pat. No. US 6001567		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MEDLEN & CARROLL, LLP, 101 HOWARD STREET, SUITE 350, SAN FRANCISCO, CA, 94105		
NUMBER OF CLAIMS:	86		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	46 Drawing Page(s)		
LINE COUNT:	5163		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel phosphoramidites, including positive and neutrally charged compounds. The present invention also provides charge tags for attachment to materials including solid supports and nucleic acids, wherein the charge tags increase or decrease the net charge of the material. The present invention further provides methods for separating and characterizing molecules based on the charge differentials between modified and unmodified materials.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L28 ANSWER 3 OF 17 USPATFULL

ACCESSION NUMBER: 2000:57750 USPATFULL
TITLE: Chimeric oligonucleoside compounds
INVENTOR(S): Arnold, Jr., Lyle J., Poway, CA, United States
Reynolds, Mark A., San Diego, CA, United States
Giachetti, Cristina, Solano Beach, CA, United States
Lebedev, Alexandre V., San Diego, CA, United States
PATENT ASSIGNEE(S): Genta Incorporated, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6060456		20000509
APPLICATION INFO.:	US 1997-960111		19971027 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-481637, filed on 7 Jun 1995, now abandoned which is a continuation of Ser. No. US 1994-238177, filed on 4 May 1994, now abandoned which is a continuation of Ser. No. US 1994-233778, filed on 26 Apr 1994, now abandoned which is a continuation of Ser. No. US 1993-154013, filed on 16 Nov 1993, now abandoned which is a continuation of Ser. No. US 1993-154014, filed on 16 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Riley, Jezia		
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear LLP.		
NUMBER OF CLAIMS:	38		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 12 Drawing Page(s)		
LINE COUNT:	5081		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Chimeric oligonucleoside compounds, and methods of preparing and formulating the same, are disclosed. The compounds and compositions are useful in activating RNaseH-mediated cleavage of target ribonucleic acid sequences, and in treating disease conditions relating to such sequences.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L28 ANSWER 4 OF 17 USPATFULL

ACCESSION NUMBER: 2000:21682 USPATFULL
TITLE: Synthetic oligomers having chirally pure phosphonate internucleosidyl linkages mixed with non-phosphonate internucleosidyl linkages
INVENTOR(S): Arnold, Jr., Lyle John, Poway, CA, United States
Hogrefe, Richard Isais, San Diego, CA, United States
Reynolds, Mark Alan, San Diego, CA, United States
Riley, Timothy Andrew, Nipomo, CA, United States
Schwartz, David Aaron, Encinitas, CA, United States
Vaghefi, Morteza Monir, San Diego, CA, United States
Brown, Bob Dale, Encinitas, CA, United States
PATENT ASSIGNEE(S): Genta Incorporated, San Diego, CA, United States (U.S.)

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6028188		20000222
APPLICATION INFO.:	US 1994-342924		19941121 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-154014, filed on 16 Nov 1993		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Houtteman, Scott W.		
LEGAL REPRESENTATIVE:	Knobbe, Martins, Olson & Bear, LLP		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	3155		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Oligomers having chirally pure phosphonate internucleosidyl linkages mixed with non-phosphonate internucleosidyl linkages which hybridize to RNA target sequences and methods for their preparation are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L28 ANSWER 5 OF 17 USPATFULL

ACCESSION NUMBER: 1999:146782 USPATFULL

TITLE: Synthetic oligomers having phosphonate internucleosidyl linkages of undefined chirality mixed with non-phosphonate internucleosidyl linkages

INVENTOR(S): Dwyer, Brian P., Poway, CA, United States
Arnold, Jr., Lyle John, Poway, CA, United States
Reynolds, Mark Alan, San Diego, CA, United States

PATENT ASSIGNEE(S): Genta, Inc., San Diego, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5986083		19991116
APPLICATION INFO.:	US 1994-340834		19941117 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-238177, filed on 4 May 1994, now abandoned And a continuation-in-part of Ser. No. US 1994-233778, filed on 26 Apr 1994, now abandoned And a continuation-in-part of Ser. No. US 1993-154014, filed on 16 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Houtteman, Scott W.		
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear, LLP.		
NUMBER OF CLAIMS:	21		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2384		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Oligomers having phosphonate internucleosidyl linkages mixed with non-phosphonate internucleosidyl linkages which hybridize to RNA target sequences and methods for their preparation are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L28 ANSWER 6 OF 17 USPATFULL

ACCESSION NUMBER: 1999:4884 USPATFULL

TITLE: Synthons for synthesis of oligonucleotide N3-P5 phosphoramidates

INVENTOR(S): Hirschbein, Bernard L., San Francisco, CA, United

States

Fearon, Karen L., Union City, CA, United States
Gryaznov, Sergei M., San Mateo, CA, United States
McCurdy, Sarah N., San Mateo, CA, United States
Nelson, Jeffrey S., Fremont, CA, United States
Schultz, Ronald G., Fremont, CA, United States
PATENT ASSIGNEE(S): Lynx Therapeutics, Inc., Hayward, CA, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5859233		19990112
APPLICATION INFO.:	US 1996-771789		19961220 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-663918, filed on 14 Jun 1996 which is a continuation-in-part of Ser. No. US 1996-603566, filed on 21 Feb 1996, now patented, Pat. No. US 5684143		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kunz, Gary L.		
LEGAL REPRESENTATIVE:	Macevicz, Stephen C., Powers, Vincent M.		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	2047		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

AB The invention provides a method of synthesizing oligonucleotide N3'.fwdarw.P5' phosphoramidates using an amine-exchange reaction of phosphoramidites in which a -deprotected 3'-amino group of a solid phase supported oligonucleotide chain is exchanged for the amino portion of a 5'-phosphoramidite of an incoming monomer which has a protected 3'-amino group. The resulting internucleotide phosphoramidite linkage is then oxidized to form a stable protected phosphoramidate linkage. The method of the invention greatly improves product yields and reduces reagent usage over currently available methods for synthesizing the above class of compound.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L28 ANSWER 7 OF 17 USPATFULL

ACCESSION NUMBER: 1998:160098 USPATFULL
TITLE: Sulfurization of phosphorus-containing compounds
INVENTOR(S): Barany, George, Falcon Heights, MN, United States
Hammer, Robert P., Baton Rouge, LA, United States
Musier-Forsyth, Karin, Roseville, MN, United States
Xu, Qinghong, Lauderdale, MN, United States
Chen, Lin, Minneapolis, MN, United States
PATENT ASSIGNEE(S): Regents of the University of Minesota, Minneapolis, MN,
United States (U.S. corporation)
The Board of Supervisors of LA State University, Baton Rouge, LA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5852168		19981222
APPLICATION INFO.:	US 1996-641920		19960430 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Raymond, Richard L.		
LEGAL REPRESENTATIVE:	Mueting Raasch Gebhardt		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 1447

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a method for sulfurizing a phosphorus-containing compound, such as a trivalent phosphorus compound, using a disulfide-containing five-membered heterocycle.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L28 ANSWER 8 OF 17 USPATFULL

ACCESSION NUMBER: 1998:128377 USPATFULL

TITLE: Solid phase synthesis of oligonucleotide N3'-P5' phosphoramidates

INVENTOR(S): Hirschbein, Bernard L., San Francisco, CA, United States

Fearon, Karen L., Union City, CA, United States

Gryaznov, Sergei M., San Mateo, CA, United States

McCurdy, Sarah N., San Mateo, CA, United States

Nelson, Jeffery S., Fremont, CA, United States

Schultz, Ronald G., Fremont, CA, United States

PATENT ASSIGNEE(S): Lynx Therapeutics, Inc., Hayward, CA, United States
(U.S. corporation)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 5824793		19981020
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APPLICATION INFO.:	US 1996-663918		19960614 (8)
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RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-603566, filed on 21 Feb 1996, now patented, Pat. No. US 5684143		
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DOCUMENT TYPE:	Utility		
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FILE SEGMENT:	Granted		
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PRIMARY EXAMINER:	Kunz, Gary L.		
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LEGAL REPRESENTATIVE:	Macevicz, Stephen C., Powers, Vincent M. Dehlinger & Associates		
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NUMBER OF CLAIMS:	58		
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EXEMPLARY CLAIM:	1		
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NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)		
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LINE COUNT:	2048		
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides a method of synthesizing oligonucleotide N3'.fwdarw.P5' phosphoramidates using an amine-exchange reaction of phosphoramidites in which a deprotected 3'-amino group of a solid phase supported oligonucleotide chain is exchanged for the amino portion of a 5'-phosphoramidite of an incoming monomer which has a protected 3'-amino group. The resulting internucleotide phosphoramidite linkage is then oxidized to form a stable protected phosphoramidate linkage. The method of the invention greatly improves product yields and reduces reagent usage over currently available methods for synthesizing the above class of compound.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L28 ANSWER 9 OF 17 PCTFULL COPYRIGHT 2002 Univentio

ACCESSION NUMBER: 2002079216 PCTFULL ED 20021022 EW 200241

TITLE (ENGLISH): LABELED OLIGONUCLEOTIDES, METHODS FOR MAKING SAME, AND COMPOUNDS USEFUL THEREFOR

TITLE (FRENCH): OLIGONUCLEOTIDES MARQUES, METHODES DE PRODUCTION DESDITS OLIGONUCLEOTIDES, ET COMPOSES UTILISES AVEC CES OLIGONUCLEOTIDES

INVENTOR(S): MANOHARAN, Muthiah; GUZAEV, Andrei

PATENT ASSIGNEE(S): ISIS PHARMACEUTICALS, INC., for all designates States except US; MANOHARAN, Muthiah, for US only; GUZAEV,

AGENT: Andrei, for US only
LANGUAGE OF FILING: INGLESE, Jane, E.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: English
PATENT INFORMATION: Patent

	NUMBER	KIND	DATE
	WO 2002079216	A1	20021010
DESIGNATED STATES	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG		
APPLICATION INFO.:	WO 2002-US10178	A	20020329
PRIORITY INFO.:	US 2001-09/823,031		20010330

ABEN Selectively functionalized oligonucleotides, methods for making same, and compounds useful therefor are disclosed. The oligonucleotides can be selectively functionalized with a first conjugate group at the 3'-terminal position and optionally functionalized with a second conjugate group at the 5'-terminal position and/or one or more internucleotides. Alternatively, the oligonucleotides can be selectively functionalized with a first conjugate group at the 5'-terminal position and optionally functionalized with a second conjugate group at one or more internucleotides. In yet another embodiment, the oligonucleotides can be functionalized with a first conjugate group at one or more internucleotides and with a second conjugate group at one or more different internucleotides.

ABFR L'invention concerne des oligonucleotides selectivement fonctionnalisés, des methodes de production desdits oligonucleotides, et des composés utilisés avec ces oligonucleotides. Lesdits oligonucleotides peuvent être selectivement fonctionnalisés à l'aide d'un premier groupe de conjugués au niveau de la position terminale 3', et éventuellement à l'aide d'un second groupe de conjugués au niveau de la position terminale 5' et/ou d'au moins un internucleotide. Dans un autre mode de réalisation, les oligonucleotides peuvent être selectivement fonctionnalisés à l'aide d'un premier groupe de conjugués au niveau de la position terminale 5', et éventuellement à l'aide d'un second groupe de conjugués au niveau d'au moins un internucleotide. Dans un dernier mode de réalisation, les oligonucleotides peuvent être fonctionnalisés à l'aide d'un premier groupe de conjugués au niveau d'au moins un internucleotide, et à l'aide d'un second groupe de conjugués au niveau d'un ou plusieurs internucleotide(s) différent(s).

L28 ANSWER 10 OF 17 PCTFULL COPYRIGHT 2002 Univentio
ACCESSION NUMBER: 2002063030 PCTFULL ED 20020827 EW 200233
TITLE (ENGLISH): CHARGE TAGS AND SEPARATION OF NUCLEIC ACID MOLECULES
TITLE (FRENCH): MARQUEURS DE CHARGE ET SEPARATION DE MOLECULES D'ACIDES NUCLEIQUES
INVENTOR(S): LYAMICHEV, Victor; SKRZPCZYNSKI, Zbigniew; ALLAWI, Hatim, T.; WAYLAND, Sarah, R.; TAKOVA, Tsetska; NERI,

PATENT ASSIGNEE(S): Bruce, P.
 THIRD WAVE TECHNOLOGIES, INC., for all designates
 States except US; LYAMICHEV, Victor, for US only;
 SKRZPCZYNSKI, Zbigniew, for US only; ALLAWI, Hatim, T.,
 for US only; WAYLAND, Sarah, R., for US only; TAKOVA,
 Tsetska, for US only; NERI, Bruce, P., for US only
 AGENT: CARROLL, Peter, G.
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 2002063030	A2	20020815
	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR		
	CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID		
	IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD		
	MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI		
	SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW GH		
	GM KE LS MW MZ SD SL SZ TZ UG ZM ZW AM AZ BY KG KZ MD		
	RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC		
	NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN		
	TD TG		

APPLICATION INFO.: WO 2002-US3423 A 20020206
 PRIORITY INFO.: US 2001-09/777,430 20010206

ABEN The present invention relates to novel phosphoramidites, including
 positive and neutrally charged compounds. The present invention also
 provides charge tags for attachment to materials including solid
 supports and nucleic acids, wherein the charge tags increase or decrease
 the net charge of the material. The present invention further provides
 methods for separating and characterizing molecules based on the charge
 differentials between modified and unmodified materials.
 ABFR L'invention porte sur de nouvelles phosphoramidites, comprenant des
 composants a charge positive ou neutre, des marqueurs de charge a fixer
 a des materiaux dont des supports solides, et des acides nucleiques,
 lesdits marqueurs augmentant ou reduisant la charge nette des materiaux.
 L'invention porte egalement sur des procedes de separation et de
 caracterisation de molecules se basant sur les differentiels de charge
 entre les materiaux modifies et non modifies.

L28 ANSWER 11 OF 17 PCTFULL COPYRIGHT 2002 Univentio
 ACCESSION NUMBER: 2002020544 PCTFULL ED 20020705 EW 200211
 TITLE (ENGLISH): PROCESS FOR PREPARING PEPTIDE DERIVATIZED OLIGOMERIC
 COMPOUNDS
 TITLE (FRENCH): PROCEDE POUR L'ELABORATION DE COMPOSES OLIGOMERES EN
 DERIVATION DE PEPTIDES
 INVENTOR(S): MANOHARAN, Muthiah; GUZAEV, Andrei, P.
 PATENT ASSIGNEE(S): ISIS PHARMACEUTICALS, INC., for all designates States
 except US; MANOHARAN, Muthiah, for US only; GUZAEV,
 Andrei, P., for US only
 AGENT: LUCCI, Joseph
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 2002020544	A1	20020314
	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR		
	CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID		
	IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD		
	MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK		

SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS
MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT
BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2001-US28083 A 20010907
PRIORITY INFO.: US 2000-09/658,517 20000908

ABEN Methods of preparing peptide linked oligomeric compounds are provided.
The method is useful for preparing larger scale amounts of peptide
linked oligomeric compounds. More particularly, the synthesis of peptide
linked oligomeric compounds is performed without the problems of
aggregation associated with electrostatic interactions. The present
method describes using equimolar amounts of oligomeric compounds and
peptide reagents providing for an increase in overall efficiency.

ABFR La presente invention concerne des procedes permettant l'elaboration de
composes oligomeres a liaisons peptides. Ce procede convient
particulierement pour l'elaboration a grande echelle de composes
oligomeres a liaisons peptides. L'invention concerne plus
particulierement la synthese de composes oligomeres a liaisons peptides
en s'affranchissant des difficultes creees par l'agregation associee aux
interactions electrostatiques. Le procede de l'invention porte plus
particulierement sur l'utilisation de quantites equimolaires de composes
oligomeres et de reactifs peptides permettant une augmentation du
rendement global.

L28 ANSWER 12 OF 17 PCTFULL COPYRIGHT 2002 Univentio
ACCESSION NUMBER: 2002014340 PCTFULL ED 20020711 EW 200208
TITLE (ENGLISH): PROCESSES FOR THE PREPARATION OF
OLIGONUCLEOTIDES
TITLE (FRENCH): PROCEDE DE PREPARATION D'OLIGONUCLEOTIDES
INVENTOR(S): SANGHVI, Yogesh, S.; SONG, Quanlai
PATENT ASSIGNEE(S): ISIS PHARMACEUTICALS, INC., for all designates States
except US; SANGHVI, Yogesh, S., for US only; SONG,
Quanlai, for US only
AGENT: CALDWELL, John, W.
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE

WO 2002014340	A1	20020221

DESIGNATED STATES AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW
MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE
CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF
BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2001-US25623 A 20010816
PRIORITY INFO.: US 2000-09/640,279 20000816

ABEN The present invention discloses methods for synthesizing oligomeric
compounds. The methods include a modified phosphoramidite protocol
wherein the oxidation and capping steps are combined into a single step.
The methods result in increased efficiency and are especially amenable
to the large scale synthesis of oligomeric compounds.

ABFR L'invention concerne des procedes de synthese de composants
oligomeriques. Les procedes decrits comprennent un protocole de
phosphoramidite modifie dans lequel l'oxydation et les phases de
coiffage sont combinees en une seule operation. Ces procedes permettent
d'obtenir une plus grande efficacite et peuvent etre appliques, en
particulier, a une synthese de composants oligomeriques a grande

echelle.

L28 ANSWER 13 OF 17 PCTFULL COPYRIGHT 2002 Univentio
ACCESSION NUMBER: 1997041130 PCTFULL ED 20020514
TITLE (ENGLISH): SULFURIZATION OF PHOSPHORUS-CONTAINING COMPOUNDS
TITLE (FRENCH): SULFURATION DE COMPOSES RENFERMANT DE PHOSPHORE
INVENTOR(S): BARANY, George; MUSIER-FORSYTH, Karin; XU, Qinghong;
CHEN, Lin; HAMMER, Robert, P.
PATENT ASSIGNEE(S): REGENTS OF THE UNIVERSITY OF MINNESOTA; LOUISIANA STATE
UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE, THE
BOARD OF SUPERVISORS
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 9741130	A2	19971106
DESIGNATED STATES	JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE		
APPLICATION INFO.:	WO 1997-US7118	A	19970429
PRIORITY INFO.:	US 1996-8/641,920		19960430
ABEN	The present invention provides a method for sulfurizing a phosphorus-containing compound, such as a trivalent phosphorus compound, using a disulfide-containing five-membered heterocycle.		
ABFR	La presente invention se rapporte a un procede de sulfuration d'un compose renfermant du phosphore tel qu'un compose phosphoreux trivalent au moyen d'un heterocycle a cinq elements contenant du disulphure.		

L28 ANSWER 14 OF 17 PCTFULL COPYRIGHT 2002 Univentio
ACCESSION NUMBER: 1997031009 PCTFULL ED 20020514
TITLE (ENGLISH): SOLID PHASE SYNTHESIS OF OLIGONUCLEOTIDE N3')P5'
PHOSPHORAMIDATES
TITLE (FRENCH): SYNTHESE EN PHASE SOLIDE DE PHOSPHORAMIDATES N3')P5'
OLIGONUCLEOTIDIQUES
INVENTOR(S): HIRSCHBEIN, Bernard, L.; FEARON, Karen, L.; GRYAZNOV, Sergei, M.; McCURDY, Sarah, N.; NELSON, Jeffrey, S.; SCHULTZ, Ronald, G.
PATENT ASSIGNEE(S): LYNX THERAPEUTICS, INC.
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 9731009	A1	19970828
DESIGNATED STATES	AU CA CN CZ EE FI HU JP KR LT LV NO NZ PL RU SG AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE		
APPLICATION INFO.:	WO 1996-US10418	A	19960614
PRIORITY INFO.:	US 1996-8/603,506		19960221
ABEN	The invention provides a method of synthesizing oligonucleotide N3')P5' phosphoramidates using an amine-exchange reaction of phosphoramidites in which a deprotected 3'-amino group of a solid phase supported oligonucleotide chain is exchanged for the amino portion of a 5'-phosphoramidite of an incoming monomer which has a protected 3'-amino group. The resulting internucleotide phosphoramidite linkage is then oxidized to form a stable protected phosphoramidate linkage. The method of the invention greatly improves product yields and reduces reagent usage over currently		

available methods for synthesizing the above class of compound.

ABFR L'invention concerne un procede de synthese de phosphoramidates N3'}P5' oligonucleotidiques par une reaction a echange d'amines de phosphoramidites au cours de laquelle un groupe 3'-amino deprotege d'une chaine oligonucleotidique supportee en phase solide est echange contre la portion amino d'un 5'-phosphoramidite d'un monomere entrant qui possede un groupe 3'-amino protege. La liaison phosphoramidite internucleotidique resultante est ensuite oxydee pour former une liaison phosphoramidate stable et protegee. Le procede de l'invention permet d'ameliorer considerablement les rendements de production et reduit l'utilisation de reactifs en comparaison aux procedes actuels pour effectuer la synthese de la classe de compose indiquee ci-dessus.

L28 ANSWER 15 OF 17 PCTFULL COPYRIGHT 2002 Univentio
 ACCESSION NUMBER: 1995014030 PCTFULL ED 20020514
 TITLE (ENGLISH): SYNTHETIC OLIGOMERS HAVING CHIRALLY PURE PHOSPHONATE INTERNUCLEOSIDYL LINKAGES MIXED WITH NON-PHOSPHONATE INTERNUCLEOSIDYL LINKAGES
 TITLE (FRENCH): OLIGOMERES SYNTHETIQUES AYANT DES LIAISONS INTERNUCLEOSIDYLE PHOSPHONATE CHIRALEMENT PURES MELANGEES AVEC DES LIAISONS INTERNUCLEOSIDYLE NON PHOSPHONATE
 INVENTOR(S): ARNOLD, Lyle, John, Jr.; HOGREFE, Richard, Isais; REYNOLDS, Mark, Alan; RILEY, Timothy, Andrew; SCHWARTZ, David, Aaron; VAGHEFI, Morteza, Monir; BROWN, Bob, Dale
 PATENT ASSIGNEE(S): GENTA INCORPORATED
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 9514030	A1	19950526
DESIGNATED STATES	AU CA JP KR NZ AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE		
APPLICATION INFO.:	WO 1994-US13341	A	19941116
PRIORITY INFO.:	US 1993-8/154,014		19931116
ABEN	Oligomers having chirally pure phosphonate internucleosidyl linkages mixed with non-phosphonate internucleosidyl linkages which hybridize to RNA target sequences and methods for their preparation are provided.		
ABFR	Oligomeres ayant des liaisons internucleosidyle phosphonate chiralement pures melangees avec des liaisons internucleosidyle non phosphonate qui s'hybrident a des sequences cibles d'ARN et procedes de preparation desdits oligomeres.		

L28 ANSWER 16 OF 17 PCTFULL COPYRIGHT 2002 Univentio
 ACCESSION NUMBER: 1995013834 PCTFULL ED 20020514
 TITLE (ENGLISH): CHIMERIC OLIGONUCLEOSIDE COMPOUNDS
 TITLE (FRENCH): COMPOSES OLIGONUCLEOSIDIQUES CHIMERIQUES
 INVENTOR(S): ARNOLD, Lyle, J., Jr.; REYNOLDS, Mark, A.; GIACHETTI, Christina
 PATENT ASSIGNEE(S): GENTA, INCORPORATED; ARNOLD, Lyle, J., Jr.; REYNOLDS, Mark, A.; GIACHETTI, Christina
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 9513834	A1	19950526
DESIGNATED STATES	AU CA JP KR NZ US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE		
APPLICATION INFO.:	WO 1994-US13387	A	19941116
PRIORITY INFO.:	US 1993-8/154,013		19931116
	US 1993-8/154,014		19931116
	US 1994-8/233,778		19940426
	US 1994-8/238,177		19940504

ABEN Chimeric oligonucleoside compounds and methods of preparing and formulating the same are disclosed. The compounds and compositions are useful in activating RNaseH-mediated cleavage of target ribonucleic acid sequences and in treating disease conditions relating to such sequences.

ABFR Composes oligonucleosidiques chimeriques et leurs procedes de preparation et de formulation. Ces composes et compositions sont utilisables dans l'activation du clivage a mediation par RNaseH des sequences cibles d'acide ribonucleique, et dans le traitement des etats pathologiques associes a ces sequences.

L28 ANSWER 17 OF 17 PCTFULL COPYRIGHT 2002 Univentio
 ACCESSION NUMBER: 1995013833 PCTFULL ED 20020514
 TITLE (ENGLISH): SYNTHETIC OLIGOMERS HAVING PHOSPHONATE INTERNUCLEOSIDYL LINKAGES OF UNDEFINED CHIRALITY MIXED WITH NON-PHOSPHONATE INTERNUCLEOSIDYL LINKAGES
 TITLE (FRENCH): OLIGOMERES SYNTHETIQUES COMPRENANT DES LIAISONS PHOSPHONATE INTERNUCLEOSIDYLE DE CHIRALITE INDEFINIE MELANGEES AVEC DES LIAISONS NON PHOSPHONATE INTERNUCLEOSIDYLE
 INVENTOR(S): DWYER, Brian, Patrick; ARNOLD, Lyle, John, Jr.; REYNOLDS, Mark, Alan
 PATENT ASSIGNEE(S): GENTA INCORPORATED
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
	WO 9513833	A1	19950526
DESIGNATED STATES	AU CA JP KR NZ AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE		
APPLICATION INFO.:	WO 1994-US13386	A	19941116
PRIORITY INFO.:	US 1993-8/154,014		19931116
	US 1994-8/233,778		19940426
	US 1994-8/238,177		19940504
ABEN	Oligomers having phosphonate internucleosidyl linkages mixed with non-phosphonate internucleosidyl linkages which hybridize to RNA target sequences and methods for their preparation are provided.		

L35 ANSWER 1 OF 1 PCTFULL COPYRIGHT 2002 Univentio
ACCESSION NUMBER: 1998016540 PCTFULL ED 20020514
TITLE (ENGLISH): IMPROVED COUPLING ACTIVATORS FOR OLIGONUCLEOTIDE
 SYNTHESIS
TITLE (FRENCH): ACTIVEURSEUR DE COUPLAGE AMELIORES POUR LA SYNTHSE
 D'OLIGONUCLEOTIDES
INVENTOR(S): VARGESE, Chandra; PIEKEN, Wolfgang; CARTER, Jeffrey,
 D.; YEGGE, John
PATENT ASSIGNEE(S): NEXSTAR PHARMACEUTICALS, INC.; VARGESE, Chandra;
 PIEKEN, Wolfgang; CARTER, Jeffrey, D.; YEGGE, John
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE

WO 9816540	A1	19980423